

WHAT IS CLAIMED IS:

1. An optical disk reproducing device comprising:

a motor for rotating an optical disk having at least either one of a first area and a second area;

5 an optical head for receiving a spot light after being reflected on the optical disk;

a signal generating section for generating a comparison reference signal from an output signal of the optical head;

a comparing section for comparing the comparison reference signal with a
10 predetermined threshold value, and generating a comparison signal containing at least either one of a first signal status corresponded to the first area and a second signal status corresponded to the second area; and

a control section for observing signal status of the comparison signal at least throughout a duration during which the spot light goes round once on the
15 optical disk, and making a decision, based on the observed result, about in which of the first area and the second area the spot light falls.

2. The optical disk reproducing device according to Claim 1, wherein the control section makes a decision on whether the first signal status was
20 sustained at least throughout a duration during which the spot light went round once on the optical disk, based on the observed result.

3. The optical disk reproducing device according to Claim 1, wherein the control section controls the optical head so as to activate tracking servo when
25 the control section detects that the first signal status was sustained at least throughout a duration during which the spot light went round once on the optical

disk.

4. The optical disk reproducing device according to Claim 1, further comprising:

5 a spot light moving section for moving the spot light in a radial direction of the optical disk,

wherein the control section controls the spot light moving section so as to move the spot light by a predetermined distance in the radial direction of the optical disk, whenever the second signal status was detected even only once at
10 least throughout a duration during which the spot light went round once on the optical disk.

5. The optical disk reproducing device according to Claim 4, wherein the control section repeats a predetermined number of times of a series of
15 operations for moving the spot light by the predetermined distance by controlling the spot light moving section after initial detection of sustainment of the first signal status at least throughout a duration during which the spot light went round once on the optical disk, and controls the optical head so as to start the tracking servo only after detection of sustainment of the first signal status in all of the
20 repetitive series of operations.

6. The optical disk reproducing device according to Claim 2, wherein the control section stores a relative position of the spot light and the optical disk when the sustainment of the first signal status was detected, and sets the relative
25 position as an initial position where the next irradiation of the spot light is started.

7. The optical disk reproducing device according to Claim 1, wherein the signal generating section generates a bottom hold signal of the output signal from the optical head as the comparison reference signal; and

5 the comparing section generates the comparison signal which takes the first signal status when the comparison reference signal came short of the predetermined threshold value, and takes the second signal status when the comparison reference signal exceeded the predetermined threshold value.

10 8. The optical disk reproducing device according to Claim 1, wherein the signal generating section generates a differential signal of a top-hold signal and a bottom-hold signal of the output signal from the optical head as the comparison reference signal; and

the comparing section generates the comparison signal which takes the
15 first signal status when the comparison reference signal exceeded the predetermined threshold value, and takes the second signal status when the comparison reference signal came short of the predetermined threshold value.

9. The optical disk reproducing device according to Claim 1, further
20 comprising:

a threshold value generating section for detecting a peak level of the output signal from the optical head when the spot light was irradiated onto a mirror surface on the optical disk, and generating the predetermined threshold value based on a level within the peak level.

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10. A method of reproducing an optical disk comprising the steps of:

rotating an optical disk having at least either one of a first area and a second area;

generating a light reception signal of a spot light reflected by the optical disk after being irradiated therewith;

5 generating a comparison reference signal from the light reception signal;

 generating a comparison signal containing at least either one of a first signal status corresponded to the first area and a second signal status corresponded to the second area, by comparing the comparison reference signal with a predetermined threshold value; and

10 observing signal status of the comparison signal at least throughout a duration during which the spot light goes round once on the optical disk, and making a decision, based on the observed result, about in which of the first area and the second area the spot light falls.